

## 5918308G

5918308NG

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1952 mm

- Twin band antenna, dual polarisation, 4 connectors
- Independent tilt on each band 2-12° / 2-12°
- RET version, 3GPP/AISG2.0 with two integrated RCUs and two indicators

ORDERING OPTIONS	MODEL NUMBER
Antenna with 7/16-DIN Female Connectors	5918308G
Antenna with 4.3-10 Female Connectors	5918308NG

ACCESS PORT DESCRIPTION (CONNECTORS)		
The antenna has 4 colour-coded connectors located at the bottom face.		
Frequency Designation	R1	R2
Frequency Range	690-960 MHz	690-960 MHz
Polarisation	Xpol	Xpol
Horizontal Beamwidth	65°	65°
Electrical Downtilt Range	2-12°	2-12°
Connector Type	(2x) 4.3-10 or 7/16-DIN Female	(2x) 4.3-10 or 7/16-DIN Female

ELECTRICAL CHARACTERISTICS		R1			
Frequency Bands		690-960 MHz			
		690-806 MHz	790-862 MHz	824-894 MHz	880-960 MHz
Gain	at Mid Tilt	15 dBi	15.5 dBi	15.6 dBi	15.8 dBi
	Over All Tilts	14.8 ± 0.4 dBi	15.5 ± 0.4 dBi	15.6 ± 0.3 dBi	15.8 ± 0.5 dBi
Input Impedance		50Ω			
VSWR		< 1.5			
Polarisation		±45°			
Horizontal Beamwidth (-3 dB)		68° ± 5.2°	65° ± 4.1°	63° ± 3.4°	60° ± 3.8°
Vertical Beamwidth (-3 dB)		10.8° ± 0.8°	10.0° ± 0.6°	9.6° ± 0.7°	9.4° ± 0.6°
Electrical Downtilt Range		2-12°			
Cross-Polar Isolation		> 28 dB			
Port-to-Port Isolation		> 27 dB			
Inter Band Isolation		> 27 dB			
First Upper Sidelobe Suppression		> 16 dB	> 16 dB	> 16 dB	> 16 dB
Upper Sidelobe Suppression (peak to 20°)		> 16 dB	> 16 dB	> 16 dB	> 16 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 23 dB	> 23 dB	> 25 dB	> 25 dB
Cross Polar Ratio	Main Direction (0°)	> 22 dB	> 21 dB	> 19 dB	> 19 dB
	Sector Edges (±60°)	> 12 dB	> 11 dB	> 9 dB	> 9 dB
Maximum Average Input Power (at 50°C Ambient Temperature)		200 W			
Intermodulation 3rd Order for 2 x 43 dBm carrier		< -153 dBc			
Grounding		DC Ground			



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ELECTRICAL CHARACTERISTICS		R2			
Frequency Bands		690-960 MHz			
		690-806 MHz	790-862 MHz	824-894 MHz	880-960 MHz
Gain	at Mid Tilt	15 dBi	15.5 dBi	15.6 dBi	15.8 dBi
	Over All Tilts	14.8 ± 0.4 dBi	15.5 ± 0.4 dBi	15.6 ± 0.3 dBi	15.8 ± 0.5 dBi
Input Impedance		50Ω			
VSWR		< 1.5			
Polarisation		±45°			
Horizontal Beamwidth (-3 dB)		68° ± 5.8°	65° ± 4.1°	63° ± 3.8°	60° ± 3.9°
Vertical Beamwidth (-3 dB)		11.1° ± 0.9°	10.2° ± 0.5°	9.8° ± 0.6°	9.5° ± 0.6°
Electrical Downtilt Range		2-12°			
Cross-Polar Isolation		≥ 28 dB			
Port-to-Port Isolation		> 27 dB			
Inter Band Isolation		> 27 dB			
First Upper Sidelobe Suppression		> 16 dB	> 16 dB	> 16 dB	> 16 dB
Upper Sidelobe Suppression (peak to 20°)		> 16 dB	> 16 dB	> 16 dB	> 16 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 23 dB	> 23 dB	> 24 dB	> 25 dB
Cross Polar Ratio	Main Direction (0°)	> 20 dB	> 20 dB	> 20 dB	> 20 dB
	Sector Edges (±60°)	> 10 dB	> 10 dB	> 10 dB	> 10 dB
Maximum Average Input Power (at 50°C Ambient Temperature)		200 W			
Intermodulation 3rd Order for 2 x 43 dBm carrier		< -153 dBc			
Grounding		DC Ground			

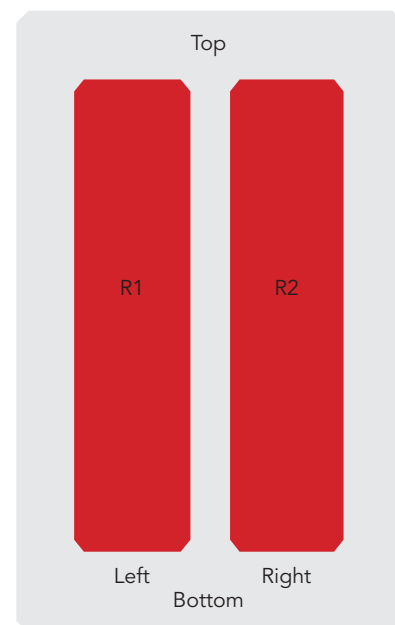
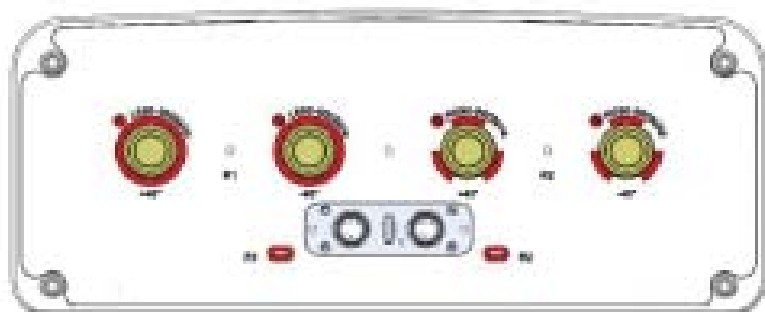
INTEGRATED RET PROPERTIES	
Protocol	Compliant with 3GPP/AISGv2.0
Power Supply	10-30VDC
Power Consumption	≤ 2 W (Idle); ≤ 10 W (In Motion)
Hardware Interface	RS485 and Power
Adjustment Cycles	> 10,000
Torque Max	≥ 160 mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin3: RS485+; Pin5: RS485-; Pin6: 10-30V; Pin7: GND

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ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	<span style="color: red;">■</span> R1		690-960	1-2
<span style="color: red;">■</span> R2		690-960	3-4	4.3-10 or 7/16-DIN Female

Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

MECHANICAL CHARACTERISTICS		PACKAGING
Dimensions (Height x Width x Depth)	1952 x 447 x 157 mm (76.9 x 17.6 x 6.2 in)	<b>Carton Box</b> 2.255 x 0.517 x 0.207 m (88.8 x 20.4 x 8.1 in)
Weight (excluding mounting accessory)	32.3 kg (71.2 lbs)	
Shroud	Fiberglass	
Wind Speed	Survival: 200 km/h (124.3 mph)	
MOUNTING KIT OPTIONS		POLE DIAMETER
All mounting bracket kits are ordered separately unless otherwise indicated.		
Mounting and Downtilt Bracket Kit (Included)		Ø50-Ø120 mm (Ø2.0-Ø4.7 in)

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